

# Cal/Ecotox Toxicity Data for Killdeer (*Charadrius vociferus*)\*

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Chemical	Tox Exposure	Endpoint Type	Endpoint Description	Endpoint Value	Note	Reference
CARBARYL	0, 0.44, 0.56 kg/ha application	TOX-EXP IND - accumulation	whole carcass concentration of carbaryl	increased at 0.56 kg/ha (2, 8-9 d. post-spray)	a	1
CARBARYL	0, 0.44, 0.56 kg/ha application	TOX-EXP IND - biomarkers	brain acetylcholinesterase activity	no effect	b	1
CARBARYL	0, 0.44, 0.56 kg/ha application	TOX-Non-Repro-Sublethal - whole animal	whole carcass lipid content	no effect	c	1
DDE (4,4'-)	0.57 ppm DDE in eggs	TOX-REPRO - physiology	eggshell thickness	no correlation with DDE residues in eggs	d	2

## Notes

- a NR; ND; NR; Species - California (R)=*Charadrius vociferus*; TOX - Chemical=63-25-2; TOX - Dose-Response Data Format=DR Figure; N=8-9 birds/group; spring; Tox Exp Tech=field application; Tox Exp Dur=2, 8-9, 21-30 d. post-spray; Tox Study Dur=NR; Tox Stat Sig=Y; see paper for figure of carcass residues over time, post-spray
- b NR; ND; NR; Species - California (R)=*Charadrius vociferus*; TOX - Chemical=63-25-2; TOX - Dose-Response Data Format=DR Table; N=6-13 birds/group; spring; Tox Exp Tech=field application; Tox Exp Dur=2, 8-9, 21-30 d. post-spray; Tox Study Dur=NR; Tox Stat Sig=N
- c NR; ND; NR; Species - California (R)=*Charadrius vociferus*; TOX - Chemical=63-25-2; N=6-13 birds/group; spring; Tox Exp Tech=field application; Tox Exp Dur=2, 8-9, 21-30 d. post-spray; Tox Study Dur=NR; Tox Stat Sig=N
- d Adult; ND; F; Species - California (R)=*Charadrius vociferus*; TOX - Chemical=72-55-9; N=12 eggs; June-July; McHenry and Billings Counties; Tox Exp Tech=diet; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=N

## References

- 1 Fair, Jeanne M, Patricia L. Kennedy and Lowell C. McEwen. 1995. Effects of carbaryl grasshopper control on nesting killdeer in North Dakota. *Environ. Toxicol. Chem.* 14(5):881-890.
- 2 Fair, Jeanne M., Lowell C. McEwen and Patricia L. Kennedy. 1994. Organochlorine residues in nesting killdeer, *Charadrius vociferus*, and their eggs in North Dakota. *Can. Field Nat.* 108(3):328-331.

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